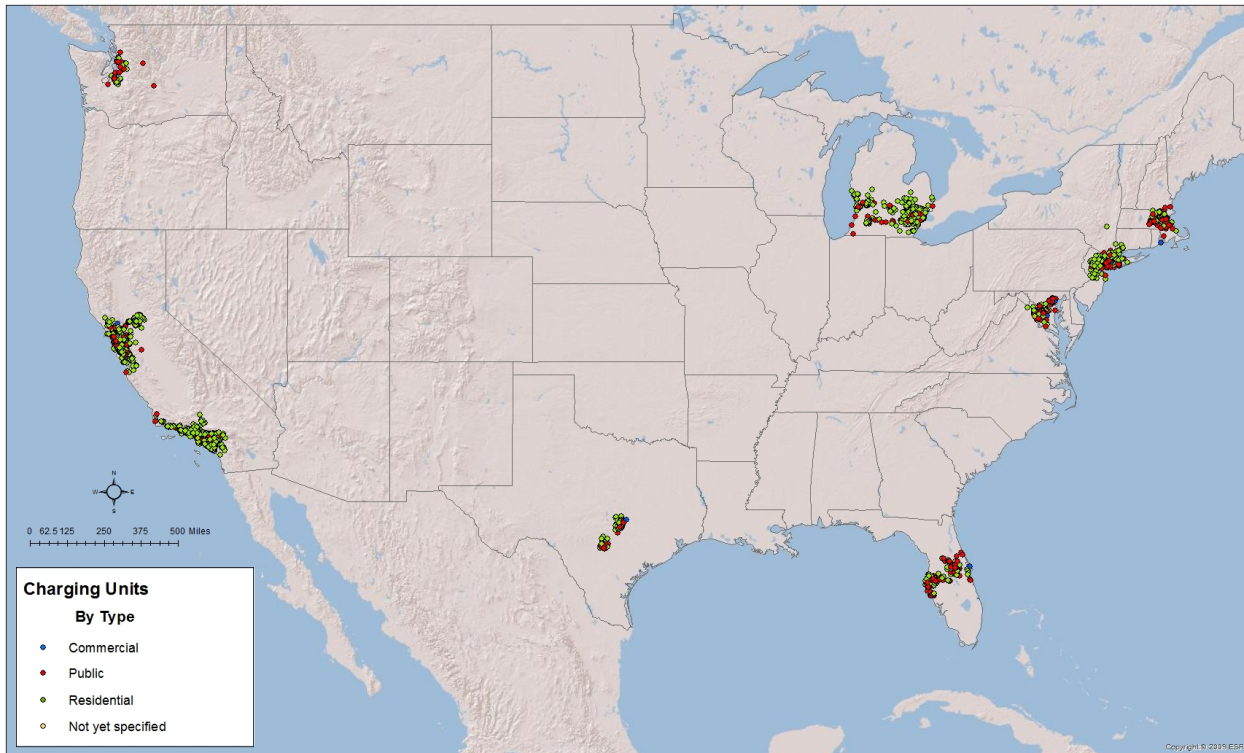


# ChargePoint® America Vehicle Charging Infrastructure Summary Report

Report through December 2013

Region	Number of AC Level 2 Charge Ports Installed to Date <sup>1</sup>					Number of Charging Events Performed <sup>2</sup>	Electricity Consumed (AC MWh)
	Residential	Private Nonresidential	Publicly Accessible	Not Specified	Total		
Boston, MA Area (Massachusetts and Rhode Island)	34	22	267	-	323	51,257	413.4
Florida	69	17	300	1	387	79,551	505.1
Los Angeles, CA Area	585	17	313	4	919	508,257	3,708.9
Michigan	341	10	220	-	571	263,058	1,800.5
New York City, NY Area (Connecticut, New Jersey, New York)	103	73	196	3	375	119,092	931.1
Sacramento/San Francisco, CA Area	550	90	647	30	1,317	607,292	4,687.1
Texas	76	8	266	-	350	78,591	542.8
Washington	19	-	123	-	142	47,132	338.9
Washington D.C. Area (District of Columbia, Maryland, Virginia)	59	27	176	1	263	69,240	471.0
<b>Total</b>	<b>1,836</b>	<b>264</b>	<b>2,508</b>	<b>39</b>	<b>4,647</b>	<b>1,823,470</b>	<b>13,398.6</b>

**ChargePoint America Charging Unit Distribution**  
Project to Date



<sup>1</sup> Includes all AC level 2 charge ports in charging units that had been used by the end of the reporting period

<sup>2</sup> A charging event is defined as the period when a vehicle is connected to a charging unit, during which period some power is transferred

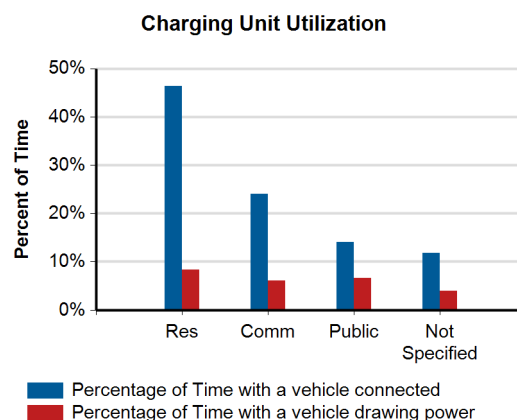
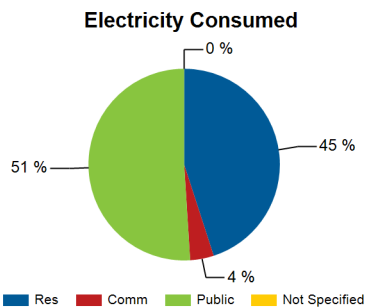
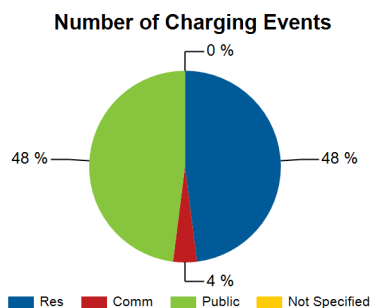
# ChargePoint® America Vehicle Charging Infrastructure Summary Report

Report period: October 2013 through December 2013

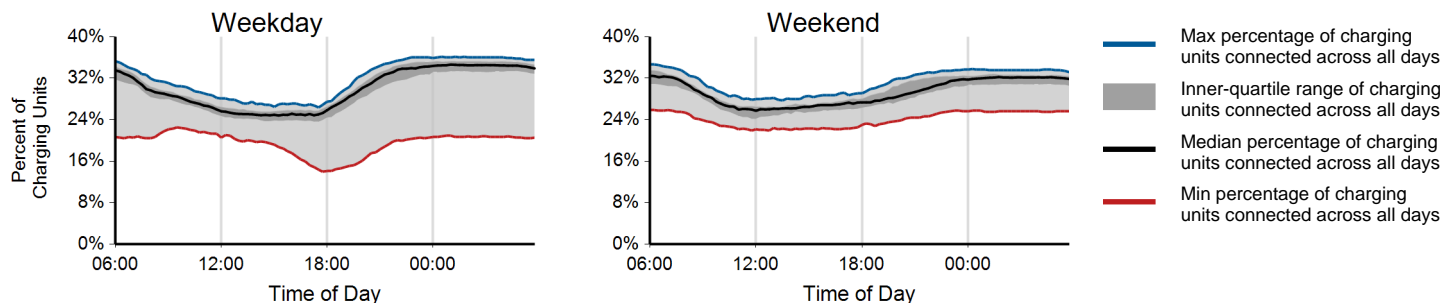
Region: All

## Charging Unit Usage - By Type

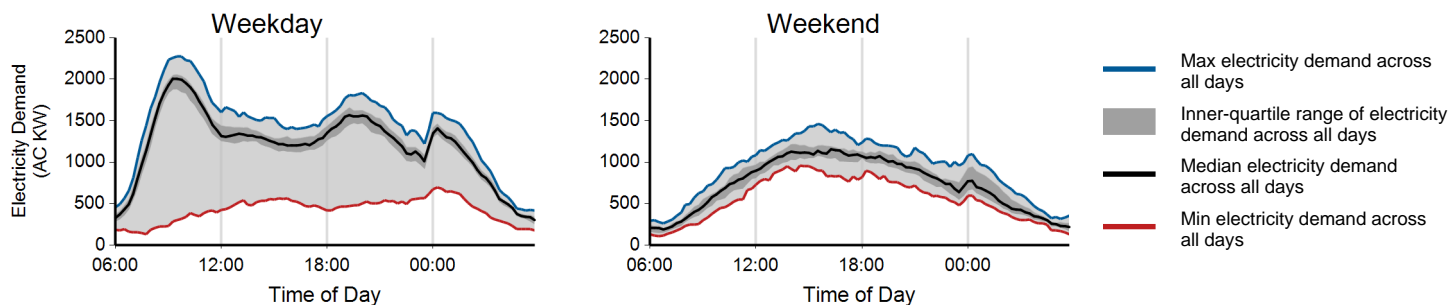
	Residential	Private Nonresidential	Publicly Accessible	Not Specified	Total
Number of charging units <sup>1</sup>	1,683	197	2,098	28	4,006
Number of charging events <sup>2</sup>	137,286	11,047	136,450	1,123	285,906
Electricity consumed (AC MWh)	992.74	91.46	1,117.79	9.87	2,211.85
Percent of time with a vehicle connected	46%	24%	14%	12%	28%
Percent of time with a vehicle drawing power	8%	6%	7%	4%	7%



## Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day



<sup>1</sup> Includes all charging units that were in use during the reporting period and have reported data to the INL

<sup>2</sup> A charging event is defined as the period when a vehicle is connected to a charging unit, during which period power is transferred

Note: Weekends start at 6:00am on Saturday and end 6:00am Monday local time

# Residential Electric Vehicle Supply Equipment (EVSE)

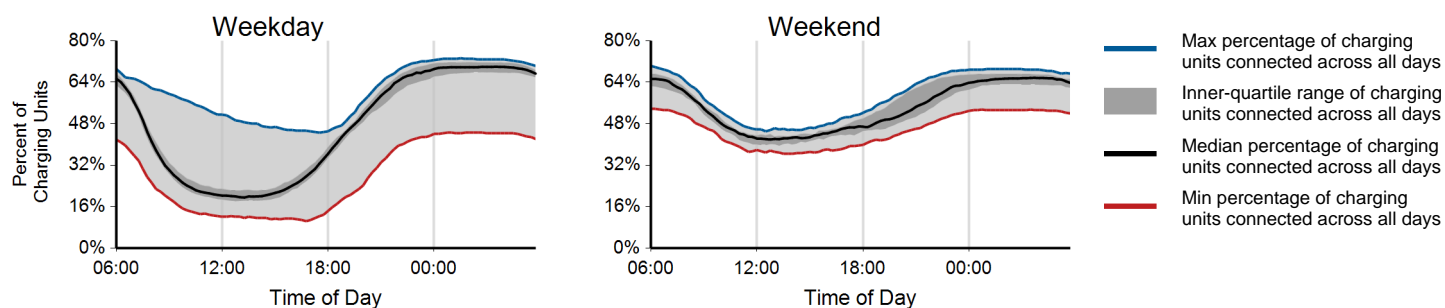
Report period: October 2013 through December 2013

Region: All

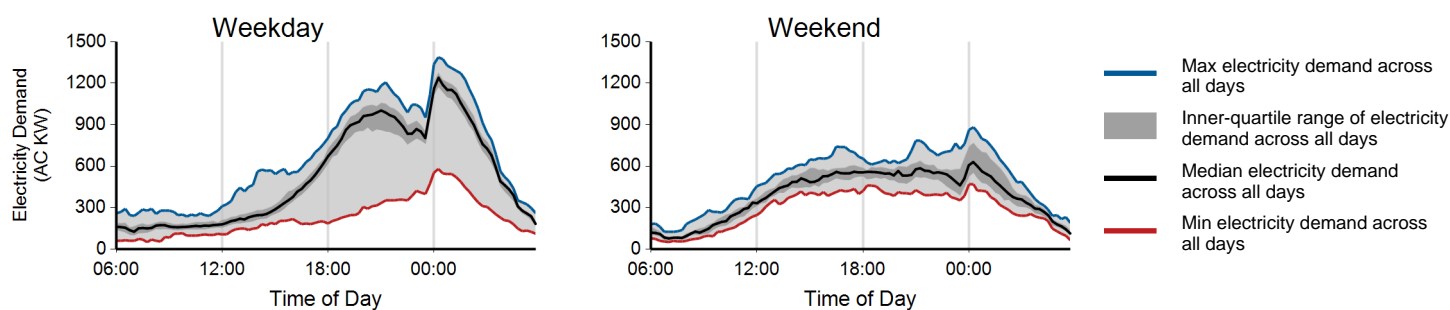
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events <sup>2</sup>	100,491	36,795	137,286
Charging energy consumed (AC MWh)	731.4	261.4	992.7
Percent of time with a vehicle connected to EVSE	44.0%	52.4%	46.4%
Percent of time with a vehicle drawing power from EVSE	8.8%	6.9%	8.4%
Average number of charging events started per EVSE per day	0.91	0.84	0.89

## Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day



<sup>1</sup> Includes all charging units that were in use during the reporting period and have reported data to the INL

<sup>2</sup> A charging event is defined as the period when a vehicle is connected to a charging unit, during which period power is transferred

Note: Weekends start at 6:00am on Saturday and end 6:00am Monday local time

# Residential Electric Vehicle Supply Equipment (EVSE)

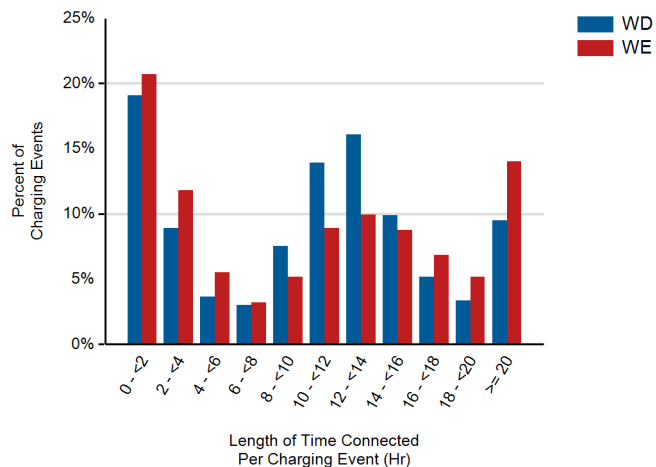
Report period: October 2013 through Decemeber 2013

Region: All

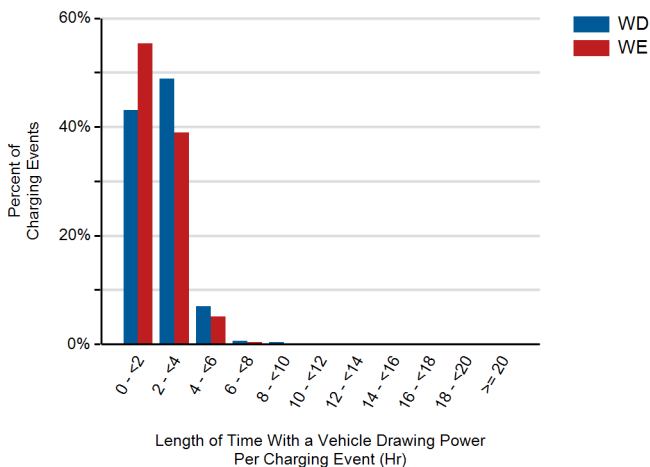
## Individual Charging Event Statistics

	Weekday	Weekend	Overall
Average length of time with a vehicle connected per charging event (hr)	12.6	12.5	12.5
Average length of time with a vehicle drawing power per charging event (hr)	2.4	2.0	2.3
Average energy consumed per charging event (AC KWh)	7.28	7.10	7.23

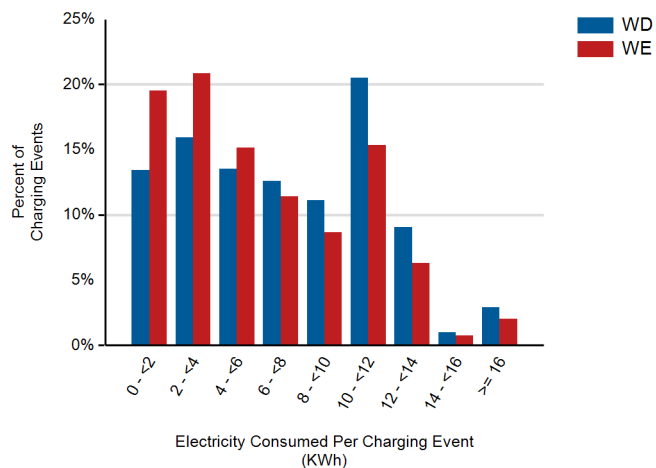
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



**Distribution of Length of Time with a Vehicle Drawing Power per Charging Event**



**Distribution of AC Energy Consumed per Charging Event**



<sup>1</sup> Includes all charging units that were in use during the reporting period and have reported data to the INL

<sup>2</sup> A charging event is defined as the period when a vehicle is connected to a charging unit, during which period power is transferred

Note: Weekends start at 6:00am on Saturday and end 6:00am Monday local time

# Private Nonresidential Electric Vehicle Supply Equipment (EVSE)

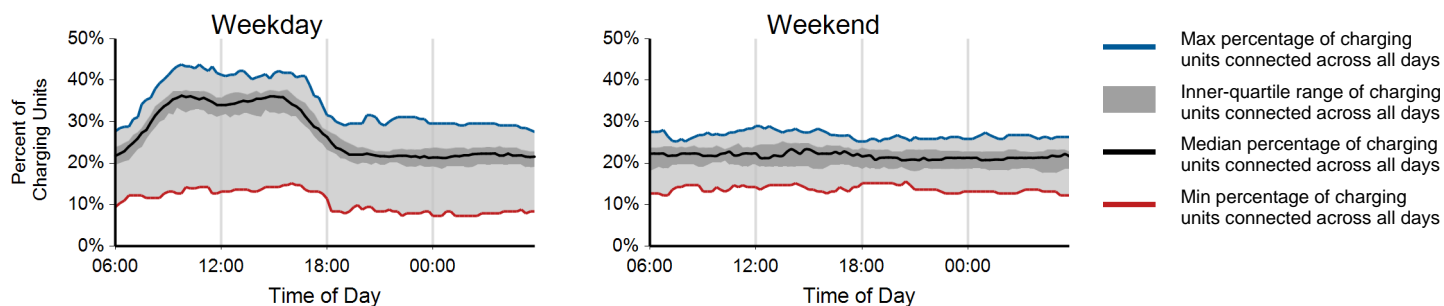
Report period: October 2013 through Decemeber 2013

Region: All

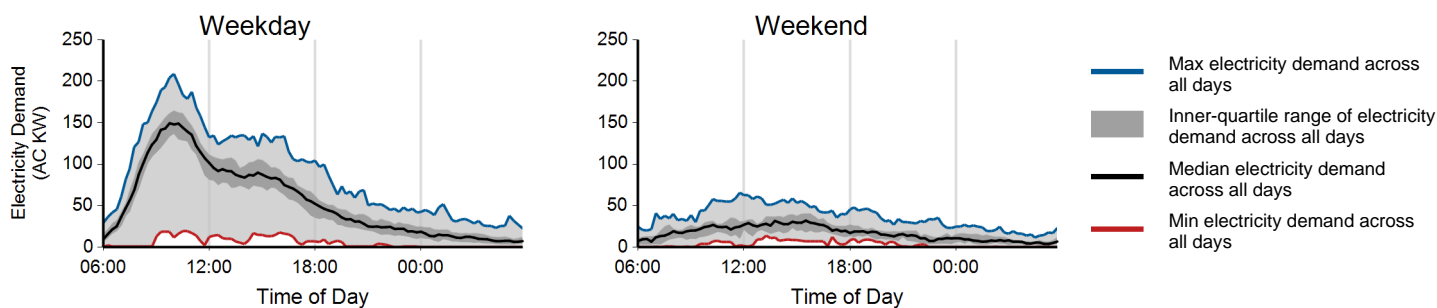
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events <sup>2</sup>	9,734	1,313	11,047
Charging energy consumed (AC MWh)	81.2	10.3	91.5
Percent of time with a vehicle connected to EVSE	25.2%	20.9%	24.0%
Percent of time with a vehicle drawing power from EVSE	7.5%	2.1%	6.1%
Average number of charging events started per EVSE per day	0.76	0.26	0.62

## Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day



<sup>1</sup> Includes all charging units that were in use during the reporting period and have reported data to the INL

<sup>2</sup> A charging event is defined as the period when a vehicle is connected to a charging unit, during which period power is transferred

Note: Weekends start at 6:00am on Saturday and end 6:00am Monday local time

# Private Nonresidential Electric Vehicle Supply Equipment (EVSE)

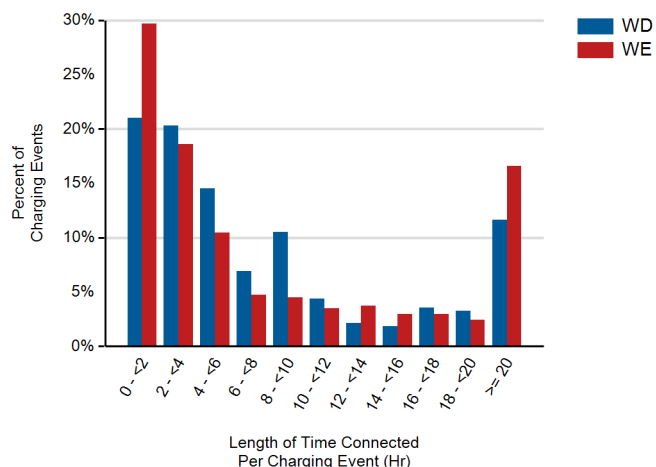
Report period: October 2013 through Decemeber 2013

Region: All

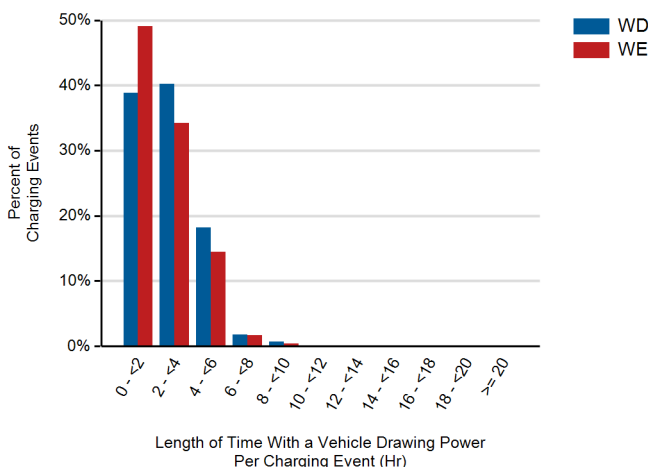
## Individual Charging Event Statistics

	Weekday	Weekend	Overall
Average length of time with a vehicle connected per charging event (hr)	9.4	8.3	9.3
Average length of time with a vehicle drawing power per charging event (hr)	2.4	2.0	2.3
Average energy consumed per charging event (AC KWh)	8.34	7.83	8.28

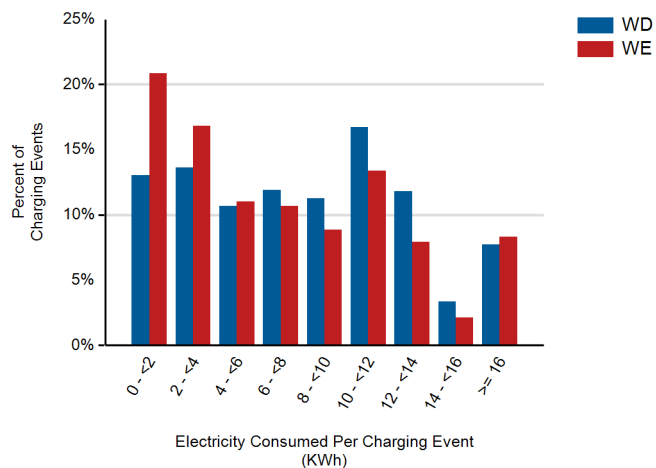
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



**Distribution of Length of Time with a Vehicle Drawing Power per Charging Event**



**Distribution of AC Energy Consumed per Charging Event**



<sup>1</sup> Includes all charging units that were in use during the reporting period and have reported data to the INL

<sup>2</sup> A charging event is defined as the period when a vehicle is connected to a charging unit, during which period power is transferred

Note: Weekends start at 6:00am on Saturday and end 6:00am Monday local time

# Publicly Accessible Electric Vehicle Supply Equipment (EVSE)

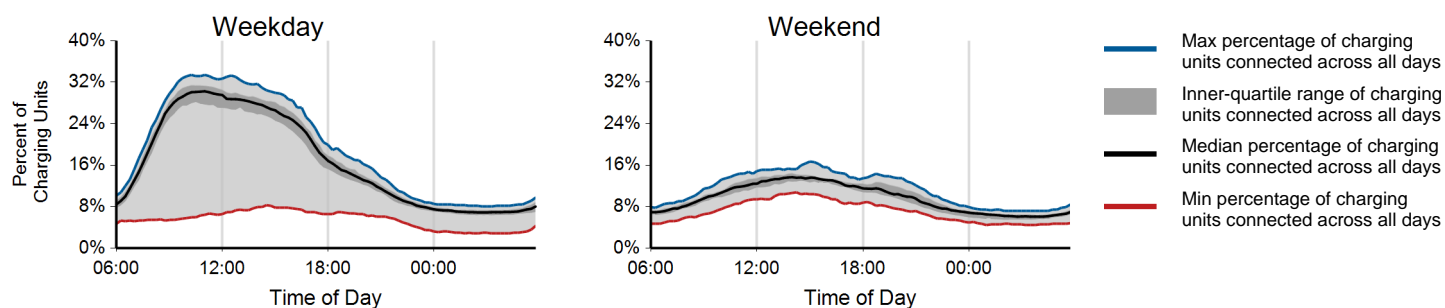
Report period: October 2013 through December 2013

Region: All

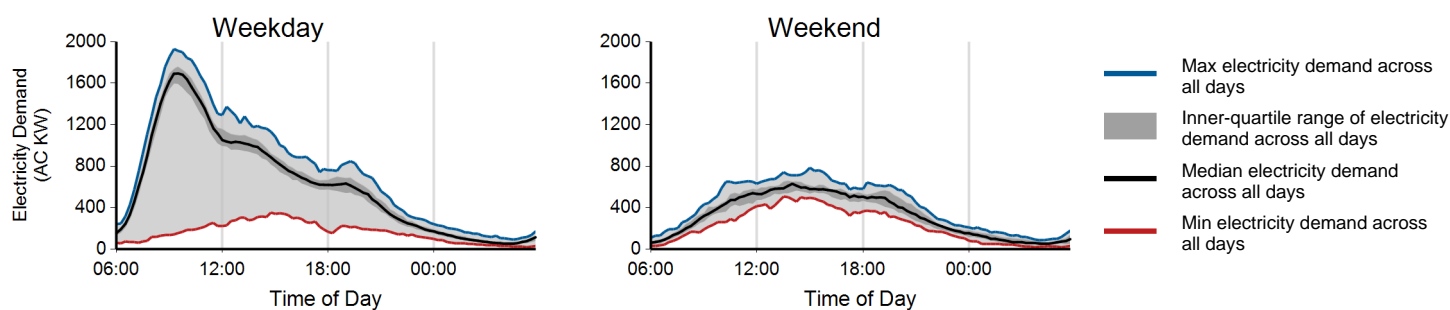
## EVSE Usage

	Weekday	Weekend	Overall
Number of charging events <sup>2</sup>	111,316	25,134	136,450
Charging energy consumed (AC MWh)	919.3	198.5	1,117.8
Percent of time with a vehicle connected to EVSE	15.9%	9.3%	14.1%
Percent of time with a vehicle drawing power from EVSE	7.6%	3.7%	6.6%
Average number of charging events started per EVSE per day	0.80	0.46	0.71

## Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day



<sup>1</sup> Includes all charging units that were in use during the reporting period and have reported data to the INL

<sup>2</sup> A charging event is defined as the period when a vehicle is connected to a charging unit, during which period power is transferred

Note: Weekends start at 6:00am on Saturday and end 6:00am Monday local time



# Publicly Accessible Electric Vehicle Supply Equipment (EVSE)

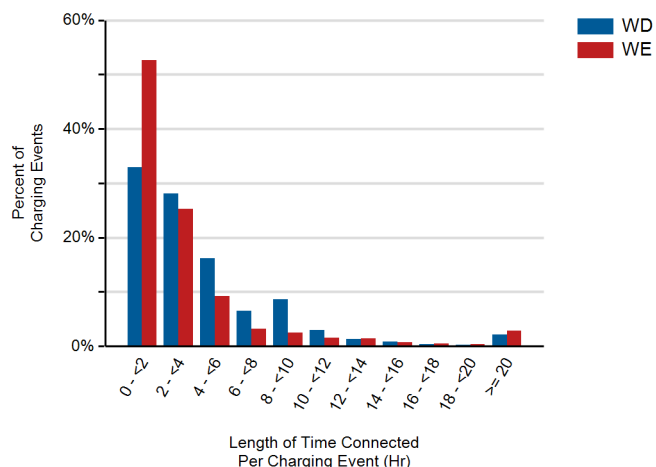
Report period: October 2013 through Decemeber 2013

Region: All

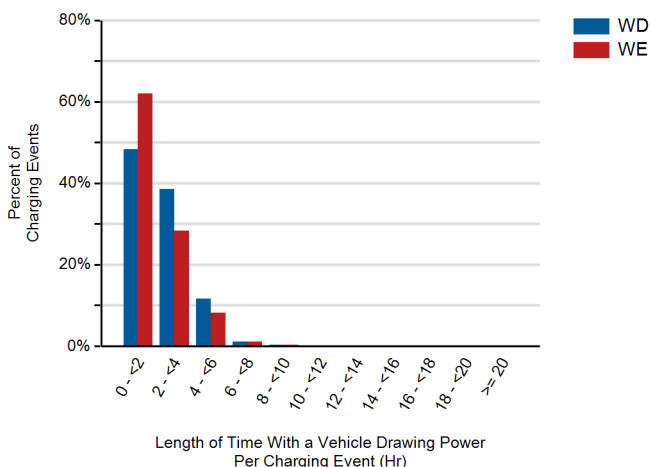
## Individual Charging Event Statistics

	Weekday	Weekend	Overall
Average length of time with a vehicle connected per charging event (hr)	4.9	4.2	4.8
Average length of time with a vehicle drawing power per charging event (hr)	2.3	2.0	2.2
Average energy consumed per charging event (AC KWh)	8.26	7.90	8.19

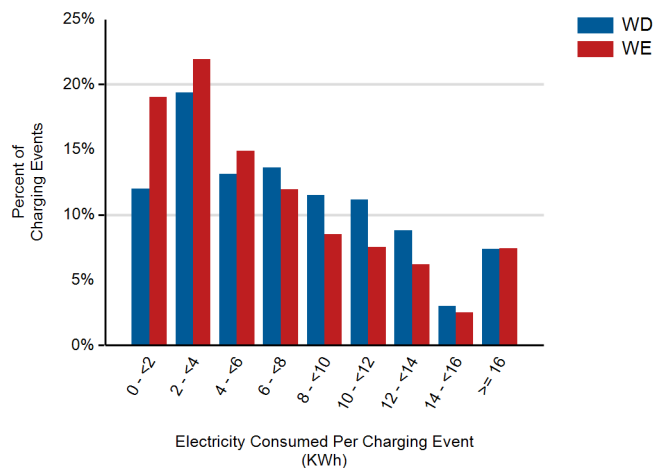
**Distribution of Length of Time with a Vehicle Connected per Charging Event**



**Distribution of Length of Time with a Vehicle Drawing Power per Charging Event**



**Distribution of AC Energy Consumed per Charging Event**



<sup>1</sup> Includes all charging units that were in use during the reporting period and have reported data to the INL

<sup>2</sup> A charging event is defined as the period when a vehicle is connected to a charging unit, during which period power is transferred

Note: Weekends start at 6:00am on Saturday and end 6:00am Monday local time



# ChargePoint® America Vehicle Charging Infrastructure Summary Report

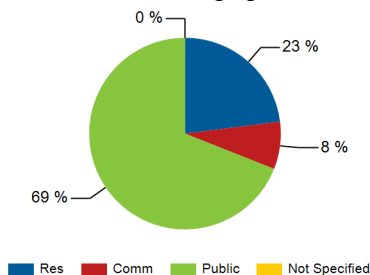
Report period: October 2013 through December 2013

Region: Boston, MA Area (Massachusetts and Rhode Island)

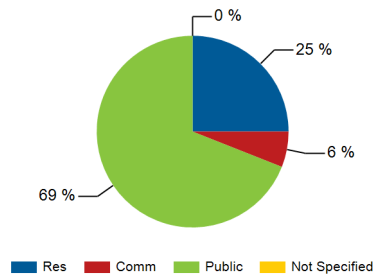
## Charging Unit Usage - By Type

	Residential	Private Nonresidential	Publicly Accessible	Not Specified	Total
Number of charging units <sup>1</sup>	31	16	168	0	215
Number of charging events <sup>2</sup>	2,574	909	7,803	0	11,286
Electricity consumed (AC MWh)	22.29	5.47	60.65	0.00	88.41
Percent of time with a vehicle connected	51%	15%	15%	0%	20%
Percent of time with a vehicle drawing power	9%	5%	5%	0%	5%

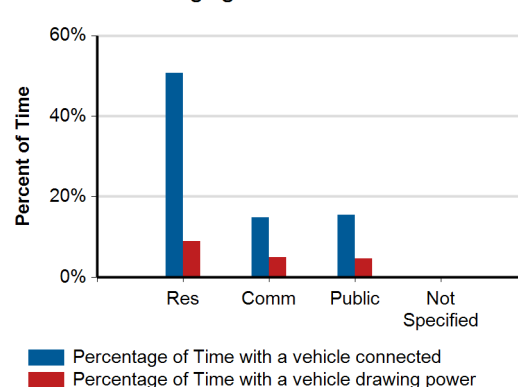
Number of Charging Events



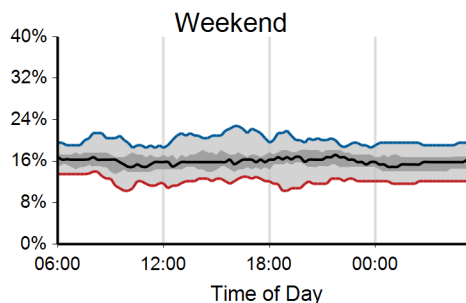
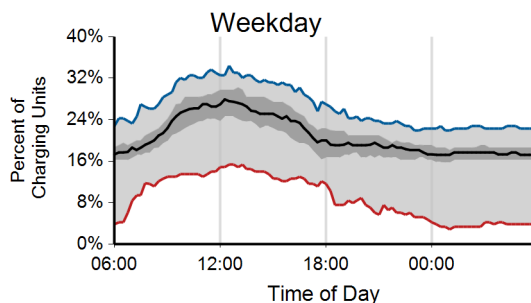
Electricity Consumed



Charging Unit Utilization

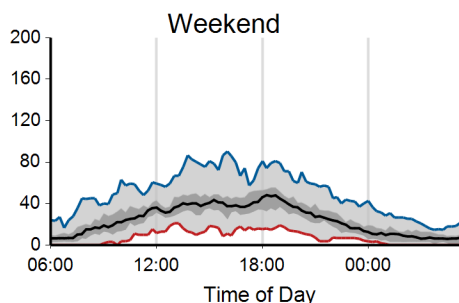
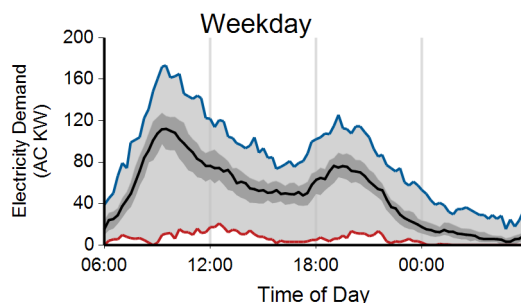


## Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage



- Max percentage of charging units connected across all days
- Inner-quartile range of charging units connected across all days
- Median percentage of charging units connected across all days
- Min percentage of charging units connected across all days

## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day



- Max electricity demand across all days
- Inner-quartile range of electricity demand across all days
- Median electricity demand across all days
- Min electricity demand across all days

<sup>1</sup> Includes all charging units that were in use during the reporting period and have reported data to the INL

<sup>2</sup> A charging event is defined as the period when a vehicle is connected to a charging unit, during which period power is transferred

Note: Weekends start at 6:00am on Saturday and end 6:00am Monday local time

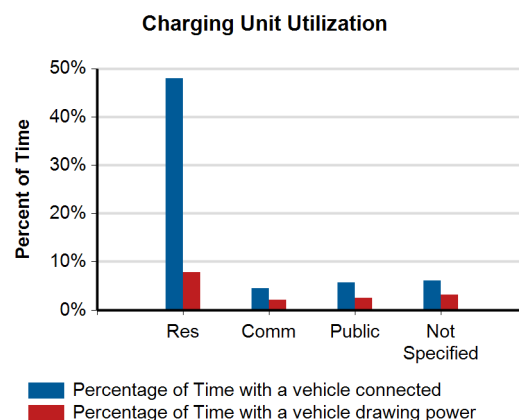
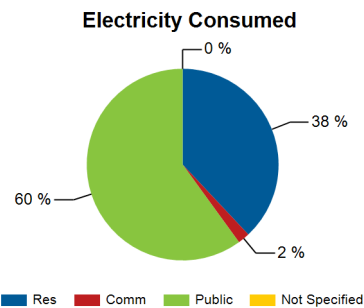
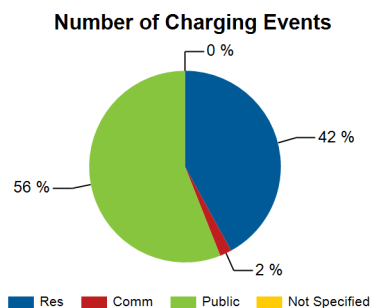
# ChargePoint® America Vehicle Charging Infrastructure Summary Report

Report period: October 2013 through December 2013

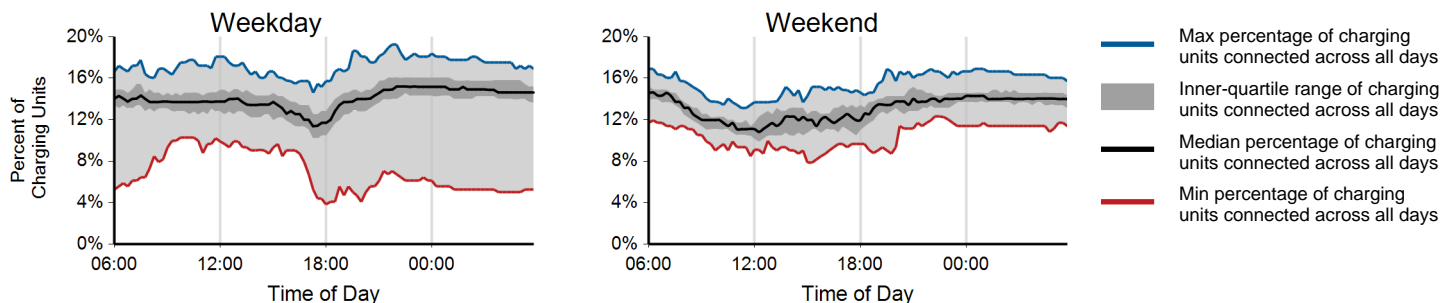
Region: Florida

## Charging Unit Usage - By Type

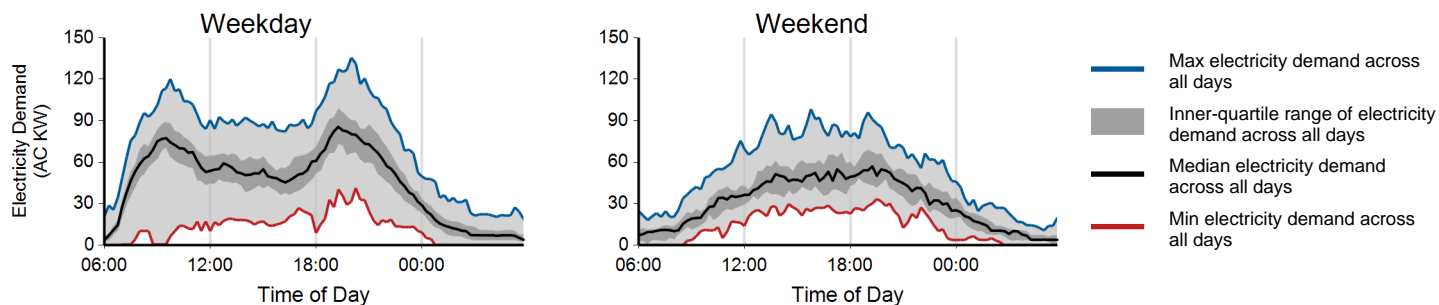
	Residential	Private Nonresidential	Publicly Accessible	Not Specified	Total
Number of charging units <sup>1</sup>	64	14	265	1	344
Number of charging events <sup>2</sup>	5,548	247	7,375	32	13,202
Electricity consumed (AC MWh)	33.22	1.85	53.15	0.21	88.42
Percent of time with a vehicle connected	48%	5%	6%	6%	14%
Percent of time with a vehicle drawing power	8%	2%	3%	3%	4%



## Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day



<sup>1</sup> Includes all charging units that were in use during the reporting period and have reported data to the INL

<sup>2</sup> A charging event is defined as the period when a vehicle is connected to a charging unit, during which period power is transferred

Note: Weekends start at 6:00am on Saturday and end 6:00am Monday local time

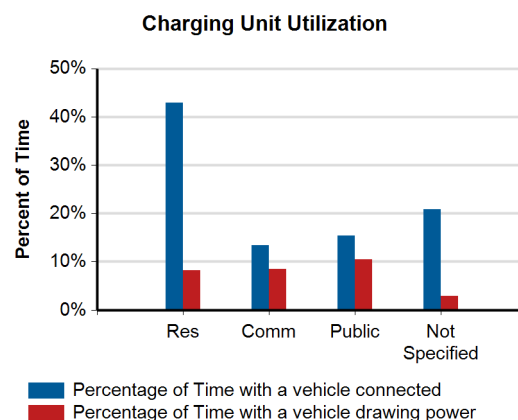
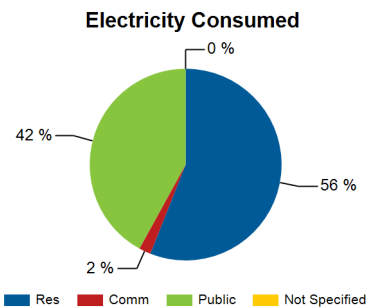
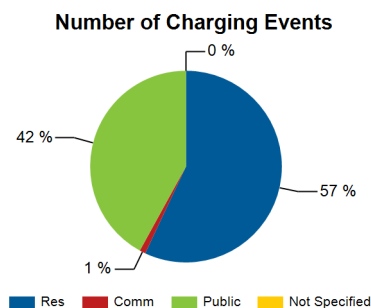
# ChargePoint® America Vehicle Charging Infrastructure Summary Report

Report period: October 2013 through December 2013

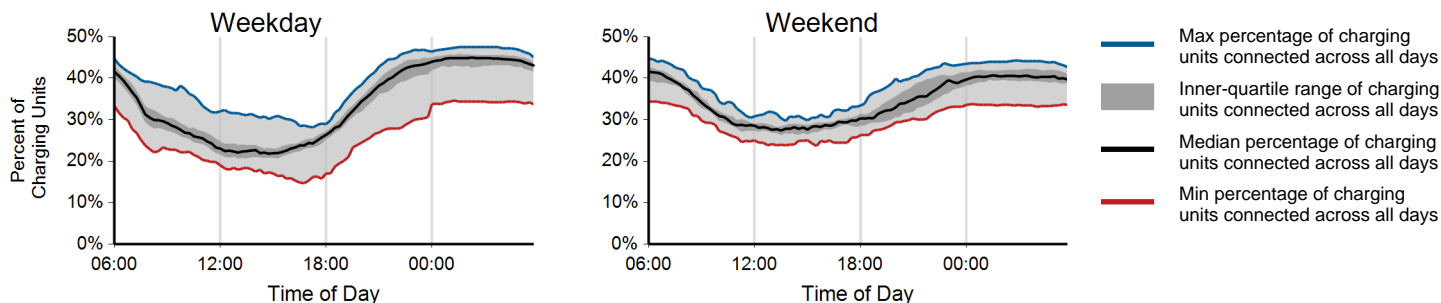
Region: Los Angeles, CA Area

## Charging Unit Usage - By Type

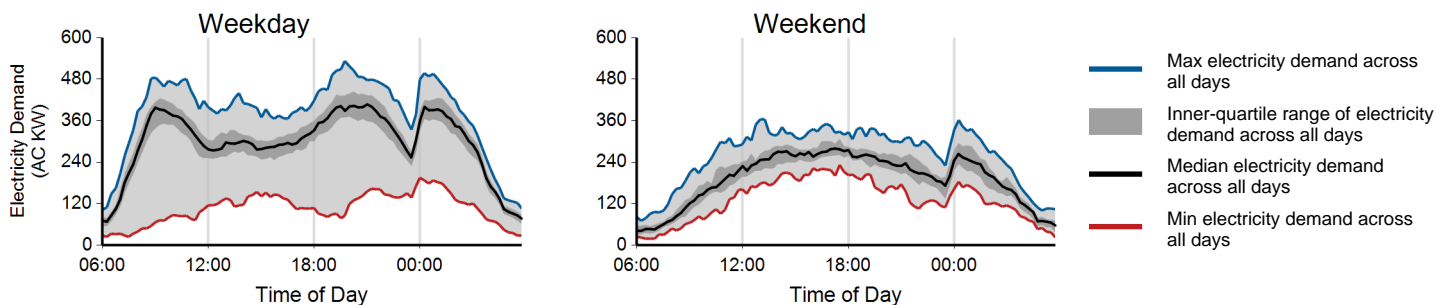
	Residential	Private Nonresidential	Publicly Accessible	Not Specified	Total
Number of charging units <sup>1</sup>	532	14	271	3	820
Number of charging events <sup>2</sup>	42,322	1,066	31,128	78	74,594
Electricity consumed (AC MWh)	312.59	9.49	234.71	0.58	557.36
Percent of time with a vehicle connected	43%	13%	15%	21%	33%
Percent of time with a vehicle drawing power	8%	8%	10%	3%	9%



## Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day



<sup>1</sup> Includes all charging units that were in use during the reporting period and have reported data to the INL

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Note: Weekends start at 6:00am on Saturday and end 6:00am Monday local time

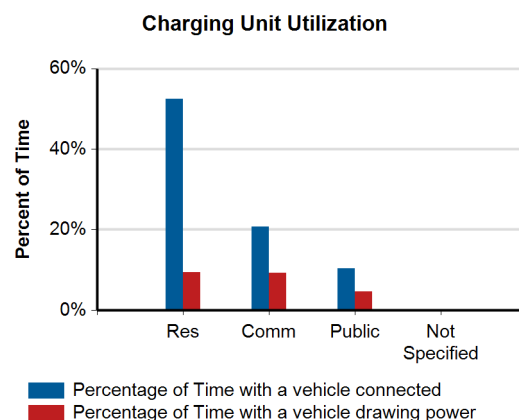
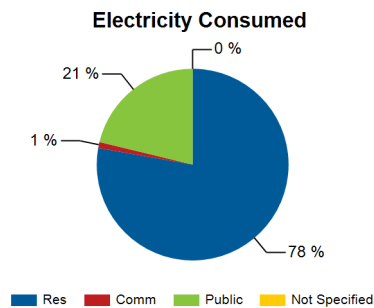
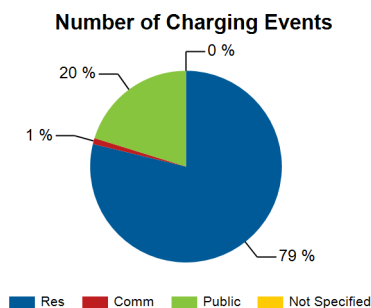
# ChargePoint® America Vehicle Charging Infrastructure Summary Report

Report period: October 2013 through December 2013

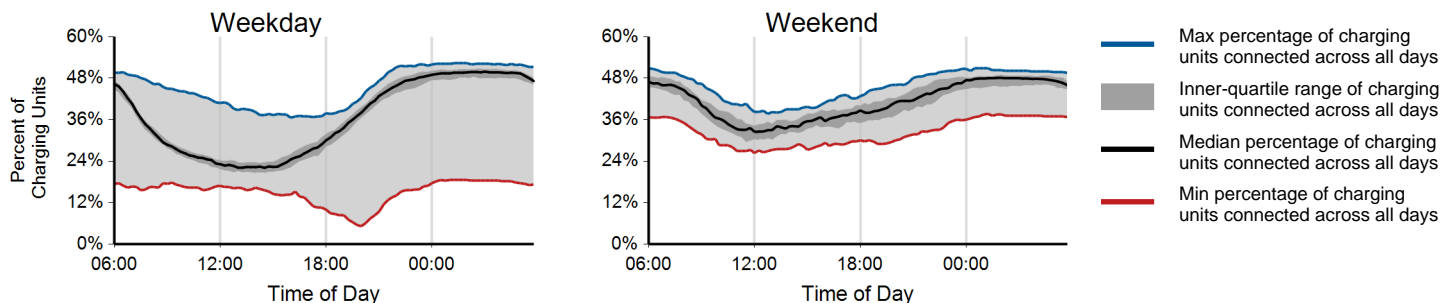
Region: Michigan

## Charging Unit Usage - By Type

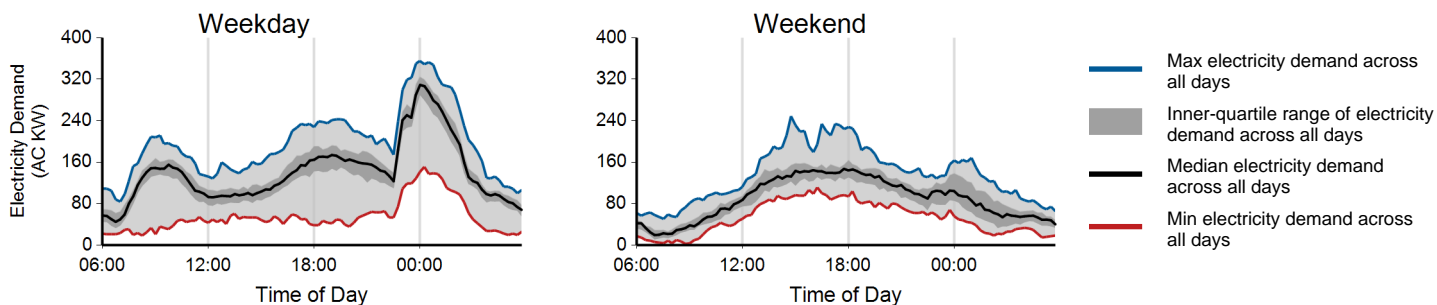
	Residential	Private Nonresidential	Publicly Accessible	Not Specified	Total
Number of charging units <sup>1</sup>	317	6	176	0	499
Number of charging events <sup>2</sup>	27,561	475	7,162	0	35,198
Electricity consumed (AC MWh)	194.74	3.75	53.27	0.00	251.77
Percent of time with a vehicle connected	52%	21%	10%	0%	37%
Percent of time with a vehicle drawing power	9%	9%	5%	0%	8%



## Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day



<sup>1</sup> Includes all charging units that were in use during the reporting period and have reported data to the INL

<sup>2</sup> A charging event is defined as the period when a vehicle is connected to a charging unit, during which period power is transferred

Note: Weekends start at 6:00am on Saturday and end 6:00am Monday local time

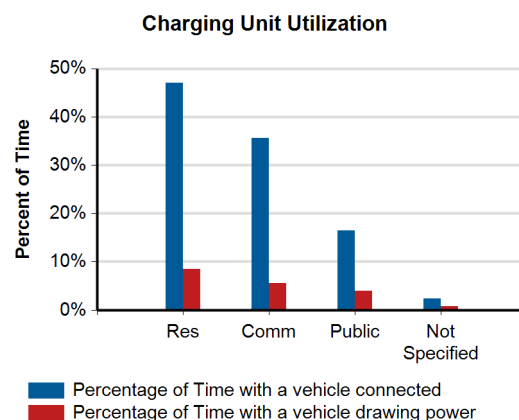
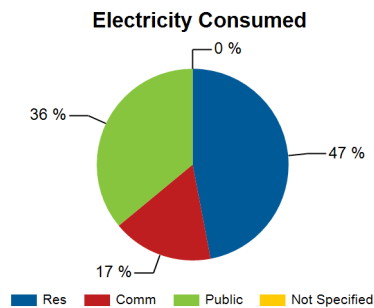
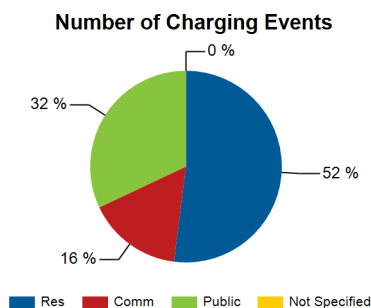
# ChargePoint® America Vehicle Charging Infrastructure Summary Report

Report period: October 2013 through December 2013

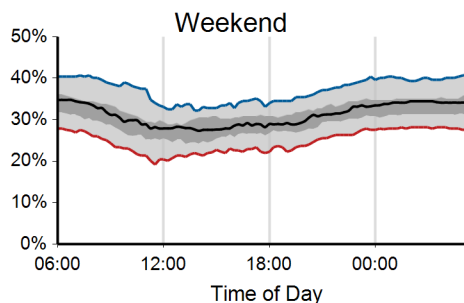
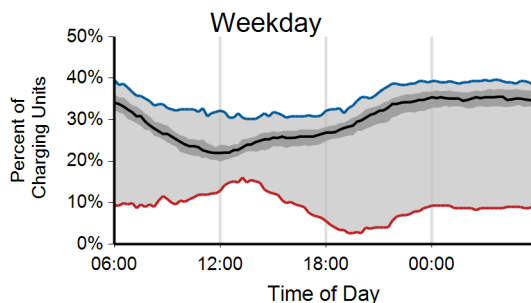
Region: New York City, NY Area (Connecticut, New Jersey, New York)

## Charging Unit Usage - By Type

	Residential	Private Nonresidential	Publicly Accessible	Not Specified	Total
Number of charging units <sup>1</sup>	93	53	158	2	306
Number of charging events <sup>2</sup>	7,953	2,435	4,895	18	15,301
Electricity consumed (AC MWh)	59.09	20.81	44.79	0.10	124.78
Percent of time with a vehicle connected	47%	36%	16%	2%	29%
Percent of time with a vehicle drawing power	8%	6%	4%	1%	6%

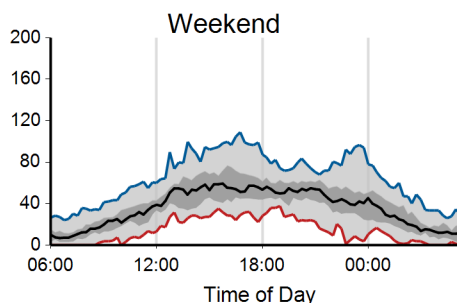
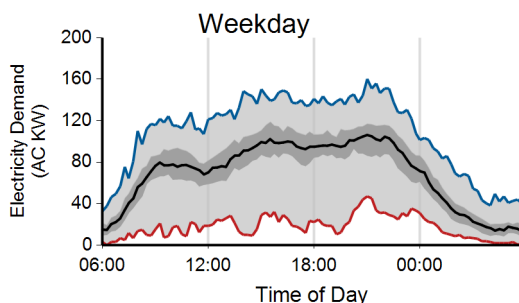


## Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage



— Max percentage of charging units connected across all days  
 — Inner-quartile range of charging units connected across all days  
 — Median percentage of charging units connected across all days  
 — Min percentage of charging units connected across all days

## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day



— Max electricity demand across all days  
 — Inner-quartile range of electricity demand across all days  
 — Median electricity demand across all days  
 — Min electricity demand across all days

<sup>1</sup> Includes all charging units that were in use during the reporting period and have reported data to the INL

<sup>2</sup> A charging event is defined as the period when a vehicle is connected to a charging unit, during which period power is transferred

Note: Weekends start at 6:00am on Saturday and end 6:00am Monday local time

# ChargePoint® America Vehicle Charging Infrastructure Summary Report

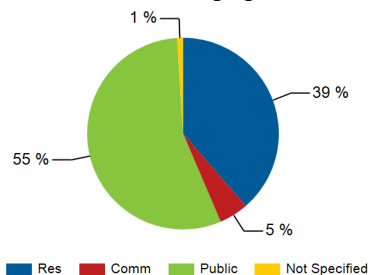
Report period: October 2013 through December 2013

Region: Sacramento/San Francisco, CA Area

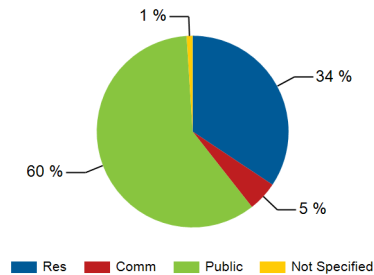
## Charging Unit Usage - By Type

	Residential	Private Nonresidential	Publicly Accessible	Not Specified	Total
Number of charging units <sup>1</sup>	510	65	560	21	1,156
Number of charging events <sup>2</sup>	40,669	5,072	58,350	993	105,084
Electricity consumed (AC MWh)	298.57	44.18	516.25	8.96	867.97
Percent of time with a vehicle connected	45%	24%	21%	12%	32%
Percent of time with a vehicle drawing power	8%	8%	11%	5%	9%

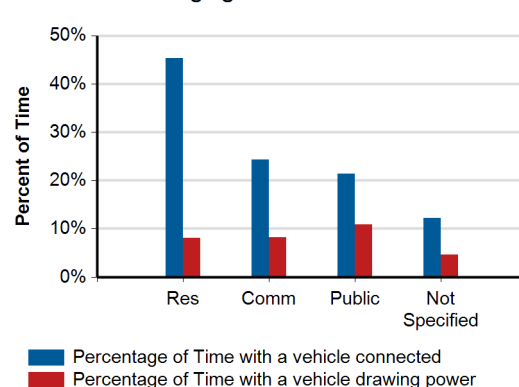
Number of Charging Events



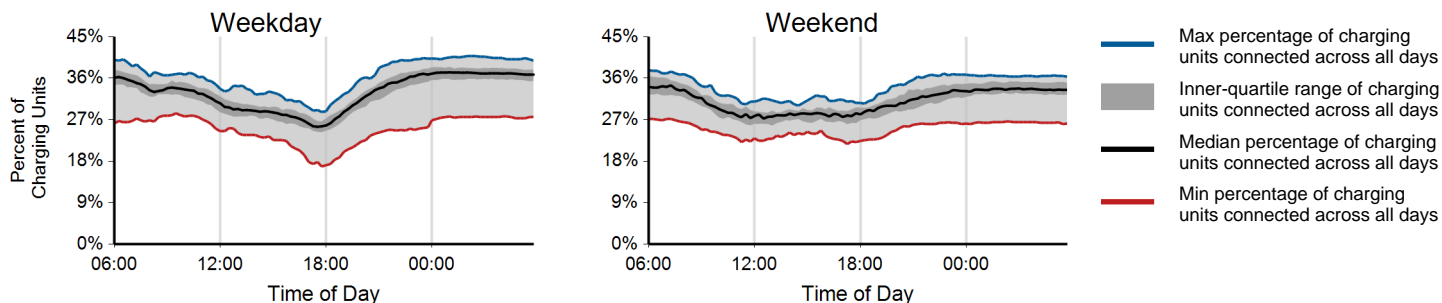
Electricity Consumed



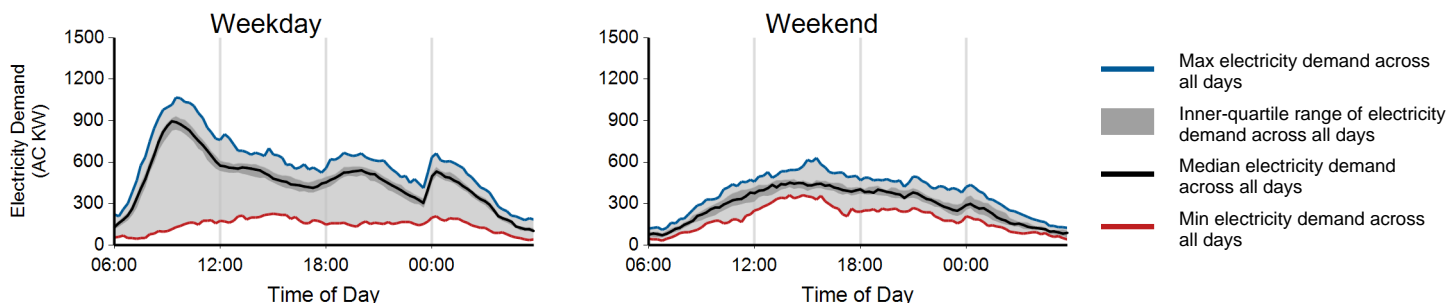
Charging Unit Utilization



## Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day



<sup>1</sup> Includes all charging units that were in use during the reporting period and have reported data to the INL

<sup>2</sup> A charging event is defined as the period when a vehicle is connected to a charging unit, during which period power is transferred

Note: Weekends start at 6:00am on Saturday and end 6:00am Monday local time



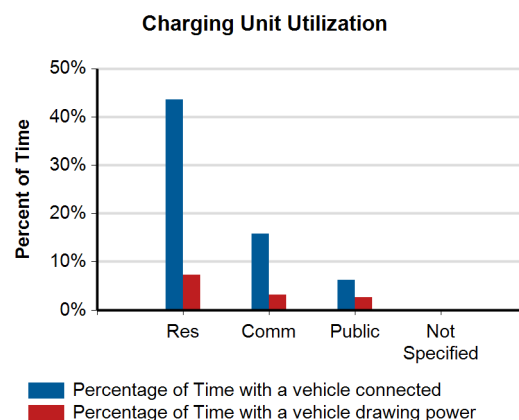
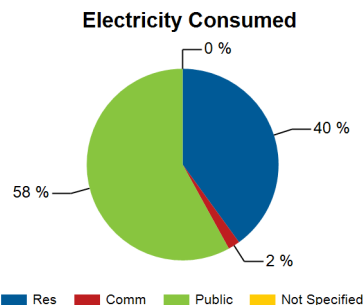
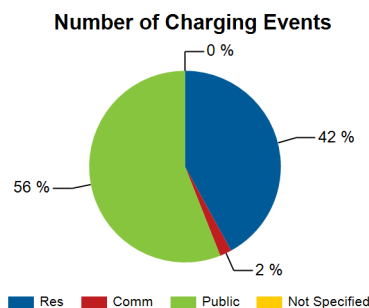
# ChargePoint® America Vehicle Charging Infrastructure Summary Report

Report period: October 2013 through December 2013

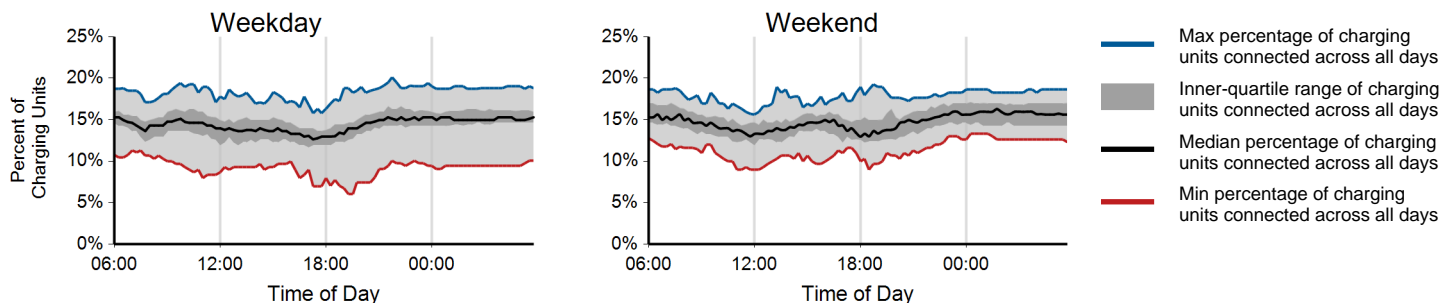
Region: Texas

## Charging Unit Usage - By Type

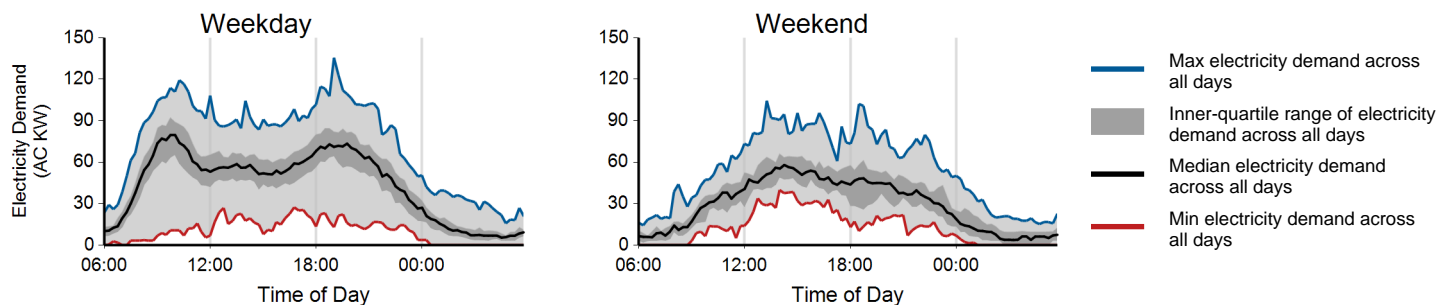
	Residential	Private Nonresidential	Publicly Accessible	Not Specified	Total
Number of charging units <sup>1</sup>	65	8	227	0	300
Number of charging events <sup>2</sup>	4,962	223	6,554	0	11,739
Electricity consumed (AC MWh)	33.51	1.81	48.73	0.00	84.05
Percent of time with a vehicle connected	44%	16%	6%	0%	15%
Percent of time with a vehicle drawing power	7%	3%	3%	0%	4%



## Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day



<sup>1</sup> Includes all charging units that were in use during the reporting period and have reported data to the INL

<sup>2</sup> A charging event is defined as the period when a vehicle is connected to a charging unit, during which period power is transferred

Note: Weekends start at 6:00am on Saturday and end 6:00am Monday local time



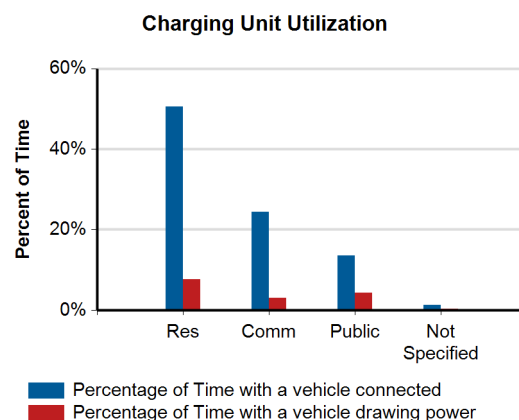
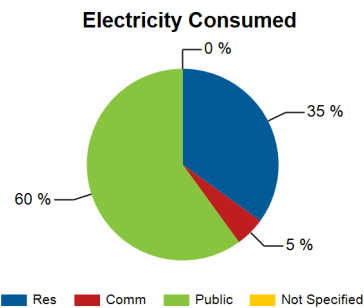
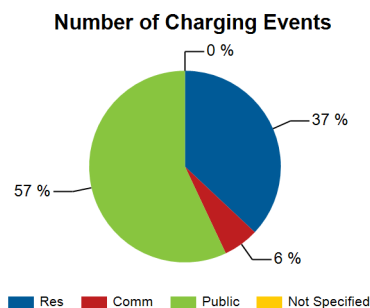
# ChargePoint® America Vehicle Charging Infrastructure Summary Report

Report period: October 2013 through December 2013

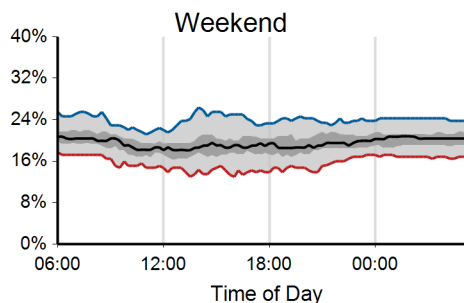
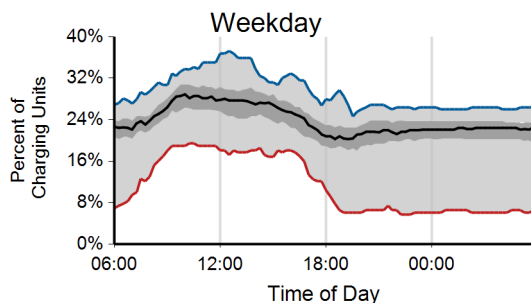
Region: Washington D.C. Area (District of Columbia, Maryland, Virginia)

## Charging Unit Usage - By Type

	Residential	Private Nonresidential	Publicly Accessible	Not Specified	Total
Number of charging units <sup>1</sup>	53	21	157	1	232
Number of charging events <sup>2</sup>	3,951	620	5,992	2	10,565
Electricity consumed (AC MWh)	26.88	4.11	46.15	0.02	77.16
Percent of time with a vehicle connected	51%	24%	14%	1%	23%
Percent of time with a vehicle drawing power	8%	3%	4%	0%	5%

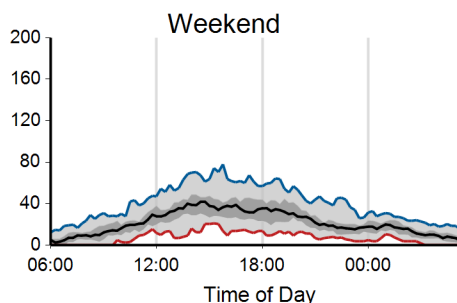
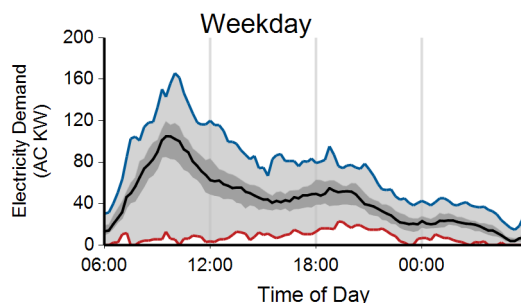


## Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage



— Max percentage of charging units connected across all days  
 — Inner-quartile range of charging units connected across all days  
 — Median percentage of charging units connected across all days  
 — Min percentage of charging units connected across all days

## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day



— Max electricity demand across all days  
 — Inner-quartile range of electricity demand across all days  
 — Median electricity demand across all days  
 — Min electricity demand across all days

<sup>1</sup> Includes all charging units that were in use during the reporting period and have reported data to the INL

<sup>2</sup> A charging event is defined as the period when a vehicle is connected to a charging unit, during which period power is transferred

Note: Weekends start at 6:00am on Saturday and end 6:00am Monday local time

# ChargePoint® America Vehicle Charging Infrastructure Summary Report

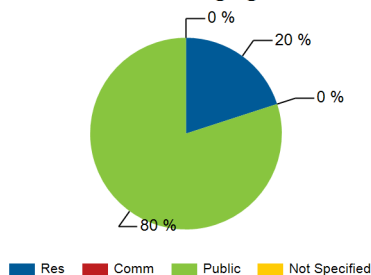
Report period: October 2013 through December 2013

Region: Washington State

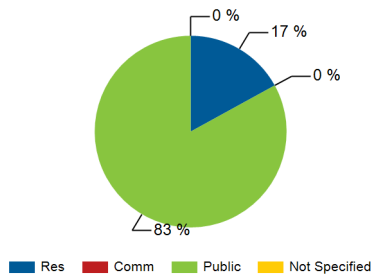
## Charging Unit Usage - By Type

	Residential	Private Nonresidential	Publicly Accessible	Not Specified	Total
Number of charging units <sup>1</sup>	18	0	116	0	134
Number of charging events <sup>2</sup>	1,746	0	7,137	0	8,883
Electricity consumed (AC MWh)	11.85	0.00	59.60	0.00	71.45
Percent of time with a vehicle connected	56%	0%	11%	0%	17%
Percent of time with a vehicle drawing power	10%	0%	6%	0%	7%

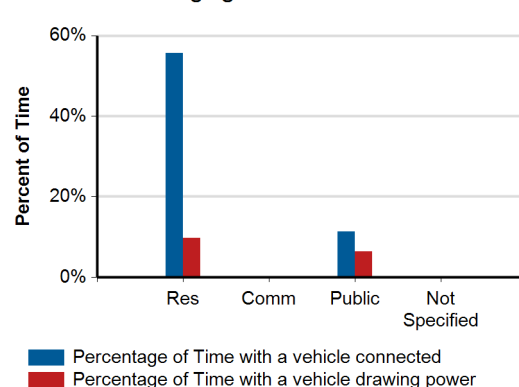
Number of Charging Events



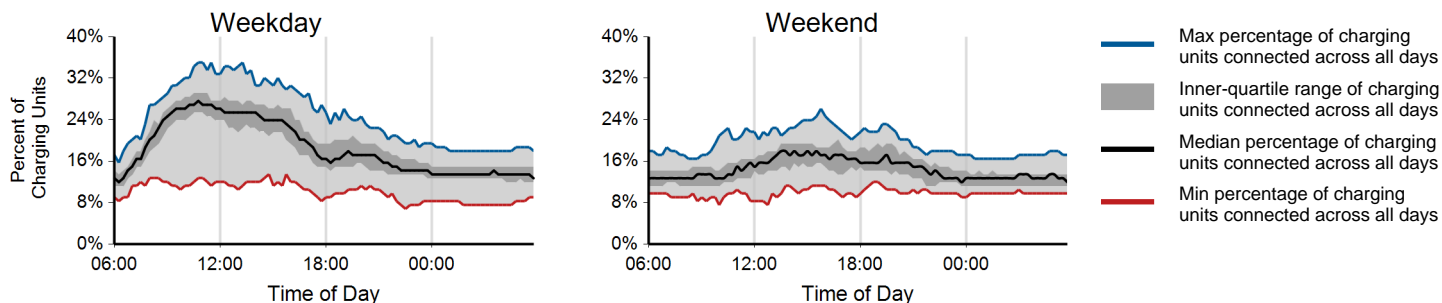
Electricity Consumed



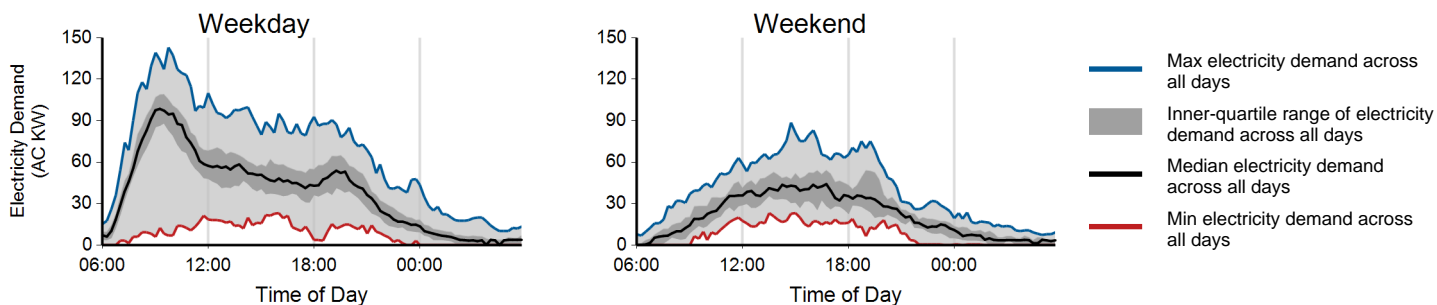
Charging Unit Utilization



## Charging Availability: Range of Charging Units with a Vehicle Connected versus Time of Day Percentage



## Charging Demand: Range of Aggregate Electricity Demand versus Time of Day



<sup>1</sup> Includes all charging units that were in use during the reporting period and have reported data to the INL

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